

In re Appln. of Glover et al.
Application No. 09/869,637

(B1) e) a signal processing data entry and data storage device for processing and storing data derived from energizing the ultrasonic transducer array to output a signal to the display monitor in order to display an image of an interior of a patient's body; and

f) a bed for supporting a patient, wherein the catheter interface module, the display monitor and the control device are located adjacent to the bed such as to be easily viewed and operated respectively by a clinician, and

wherein the signal processing data entry and storage device is located remotely from the bed at a sufficient distance to enable a clear space around the bed for occupation by a medical team so that the medical team can be adjacent to the patient.

B2 5. (Twice Amended) An IVUS system as claimed in claim 1 wherein the IVUS system is embedded in a conventional ultrasound system employing a transducer placed externally of the patient, so that units common to the IVUS system and the conventional ultrasound system can be shared.

6. (Twice Amended) An IVUS system as claimed in claim 1 wherein the IVUS system is embedded in an X-ray system, so that units common to the IVUS system and the X-ray system can be shared.

Sub 2 7. (Twice Amended) An IVUS system as claimed in claim 1 in which the control device includes an infra-red remote control device to enable control instructions to be given from a position adjacent the patient to remotely located units.

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9. (Twice Amended) A method of arranging components of an IVS system, the method comprising:

providing an IVUS system having:

a catheter having an ultrasonic transducer array mounted at least near a distal end thereof,

a catheter interface module connected to a proximal end of the catheter;

a display monitor,

a control device for controlling the system,

a signal processing data entry and data storage device for processing and storing data derived from energizing the ultrasonic transducer array to output a signal to the display monitor in order to display an image of an interior of a patient's body, and

a bed for supporting a patient;

locating the catheter interface module, the display monitor and the control device adjacent the bed such as to be easily viewed and operated respectively by a clinician; and

locating the signal processing data entry and data storage device remotely from the bed at a sufficient distance to enable a clear space around the bed for occupation by a medical team so that the team can be adjacent the patient.